[ANARTS - Australian National Amateur Radio Teletype Society]

ANARTS NEWS BULLETIN 808 08/05/1994

Sunday Transmission Schedule

3.545 MHz plus/minus 3	0930 UTC	VK2BQS (Jim)
7.045 MHz to minus 3	0030 UTC	VK2CTD (Col)
14.070 MHz (amtor/fec)	0030 UTC	VK2DPM (Alan)
14.091 MHz	0030 UTC	VK2BQS (JIM)
146.675 MHz	0030/0930 UTC	VK2JPA (PAT)
144.850 MHz (ax25 bbs)		VK2JPA AT VK2RWI
146.675 MHz (rtty mmbbs/repeater)		VK2RTY

Views expressed in this news bulletin are not necessarily those of the Broadcast Officer, the Relay Officers, or of the Society.

GTOR (conclusion) reprinted from RTTY Digital Journal ----------

On-The-Air Testing

During the month of January over a million bytes were transferred error-free from Lawrence, Kansas to Laguna Niguel, California. During these tests, TRACE was set ON at each station, enabling the display of acknowledgement bytes and data frames including control bytes. This allowed us to view and count data and acknowledgement frames received with and without the aid of forward error correction and interleaving.

The results were somewhat surprising! While Pactor often dropped in transmission speed from 200 to 100 baud, G-TOR nearly always kept on crunching frames at 300 baud! Enough frames are corrected to keep the system running at 300 baud, regardless of man-made interference and mild multi-path conditions. Transfer duration for the entire test file varied from 12 to 27 minutes for Pactor but only 5.5 to 7.5 minutes for all but one transfer in G-TOR. G-TOR simply maintained its highest pace better than Pactor, resulting in a substantial increase in average throughput.

Operation of G-TOR is much like AMTOR. Establish a link by typing (GTOR callsign) and (return) at the cmd: prompt. Enter standby to copy CQs or to receive a link request by typing (GTOR) and (Return). Tune to a G-TOR CQ call as you would in AMTOR. G-TOR uses the AMTOR FEC mode for calling CQ and as its broadcast mode. Change the direction of information flow using the directives (Control-C T) and (control-C E).

Conclusion

G-TOR features include Golay forward error correction coding, full-frame interleaving, on-the-fly Huffman data compression with run-length encoding, fuzzy acknowledgments, a long hybrid-ARQ cycle of 2.4 seconds, and a link-quality based transmission rate. Combined, these techniques result in a new, very robust, interference-resistant mode for HF digital communication for the amateur radio service. Throughput exceeds other existing all-mode TNC modes by better than two-to-one.

G-TOR will be standard in the KAM Plus and the Enhancement board for the KAM (predecessor of the KAM Plus). G-TOR will not be available for KAMs without the enhancement board since EPROM space is too small. Firmware EPROM updates will be available for the KAM Plus and KAM with Enhancement board.

G-TOR is a trademark of Kantronics, Inc.

Editor's note : there is a critique of G-TOR on the packet system here at the moment. In the interests of amateurs who do not have access to packet, we will run this item following the completion of this review so as to have another viewpoint on this new system.

VOLTA RTTY WW Contest

Contest period: from 1200z Saturday to 1200Z Sunday 14-15 May
(24 hours, no rest periods required)

Bands: 80, 40, 20, 15 and 10M

Classes: A1 - Single op, all bands
A2/xx - Single op, single band (xx = band)
B - Multi-op, single transmitter
C - SWL

Exchange : Send : RST plus QSO nr. plus CQ zone nr.

Multipliers: DXCC Country List plus each call area in VK, VE and USA.
DO NOT COUNT VK, VE , or USA as separate country. (USA stations with callsigns from one district but are now living in a different district should give proper identification, such as :K6WZ/0.) The same multiplier counts again on a new band. An additional multiplier is given for each INTERCONTINENTAL COUNTRY worked on at least four bands. Contacts between stations within the same country will not be valid, such as: a W2 station can work W1, W3, W4 etc. but not W2. Contacts made OUTSIDE ones own continent on 80 or 10M are worth double QSO points. A contact with a station that would count as a multiplier will be valid if that station appears in at least 4 other logs, or a contest log is received from that station.
More next week

IPS weekly report

29 April - 5 May 1994
Issue No 18
Date of issue: 6 May 1994

INDICES:

Date	29	30	01	02	03	04	05
10cm	078	075	075	076	074	073	073
A	06	02	25	41	45	23	(30 estimated)
T	45	40	27	-05	49	09	16

SUMMARY OF ACTIVITY

Solar activity was very low during the period.

The geomagnetic field at Learmonth (WA) was quiet on 29th-30th April, unsettled to minor storm 1st-2nd May, and unsettled to active 3rd-5th with a brief minor storm period on 3rd.

Ionospheric F2 critical frequencies at Sydney were near predicted monthly values 29th-30 April, near normal to 30 per cent enhanced on 1st May, depressed by up to 30 per cent on 2nd, returning to near normal to 20 per cent enhanced on 3rd. On 4th-5th May, frequencies were near normal to 30 per cent depressed.

Spread F was observed on 2nd and 4th-5th May, and blanketing sporadic E conditions obtained at times on 2nd May.

FORECAST FOR THE NEXT WEEK (6 - 12 May)

SOLAR: Very low

GEOMAGNETIC: Unsettled to active

IONOSPHERIC Near predicted monthly values.

Updated IPS Monthly Predicted Smoothed T-Indices

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
94	39	37	36	35	34	31	28	26	24	22	21	19
95	18	18	17	16	15	14	14	13	12	11	11	10
96	10	9	9	8	8	8	8	9	9	10	11	12
97	13	15	17	19	21	23	26	30	33	38	43	48

Courtesy of IPS Radio and Space Services

VK2SG RTTY DX NOTES 29 APR 94

VK2SG RTTY DXNOTES FOR WEEKENDING 29 APR. 1994 (BID RTDX0429)

THIS HAS BEEN ONE OF THOSE WEEKS WHERE NOTHING HAS HAPPENED, SO
I TOOK LIBERTY TO LOOK AROUND THE BANDS. ONE WONDERS AT TIMES ABOUT THE OPERATIONS OF SOME PEOPLE, IT WOULD APPEAR THAT, AT THE MOMENT, THE BIG GAME IS TO JAM OTHER STATIONS. IT HAS BEEN NOTICED THAT THERE ARE LOTS OF SIGNALS THAT JUST IDLE ON TOP OF STATIONS THAT ARE TRYING TO ESTABLISH A CONTACT. SOME OTHER OPERATOR SEEM TO SPEND A LOT OF TIME JUST LISTING BULLETINS IN EVERY MAILBOX THAT CAN FIND, WELL EACH ONE IS ENTITLED TO DO THAT, BUT IT SURE SEEMS TO ANNOY SOME PEOPLE.

OUR THANKS THIS WEEK GO TO: ZS5S, W2JGR, WB2CJL, VK2SG, OH2BBF ON6RO, DJ3IW AND THE CENTRAL-EU. DXCLUSTER NODE DB0SPC, I5ICY AND IK5PWJ PACKETCLUSTER AND THE NJ0M NODE OF THE TWIN CITIES.

BANDPASS:
FRIDAY 22
0641-14084 C91AI
1240-14085 RA1ZD
1337-14087 J28JJ
2005-14084 UY0IO
2201-14083 EI3GZ

SATURDAY 23 (INT. MARCONI DAY)
0056-14082 CX7BF
0140-14077 P29RB PACTOR
0338-14069 A35CT AMT
0551-14080 7Z1AB PACTOR

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1006-14077 T30NS  PACTOR
1256-21085 ZD7DP
1304-21084 Z21HD
1440-14082 XU7VK
1443-14086 3Z0RY  FER PREFIX
1445-21085 5R8DS
1447-21088 S92ZM
1512-14078 V51A
1538-21083 VQ9SS
1541-21091 ZP6XR
1639-21085 J28JJ
1705-14083 UN5PR
1836-21090 9H1ET
1930-14088 VP9MZ

SUNDAY 24

0302-14085 ZL3GQ
0321-14075 V31AE  PACTOR
0937-21086 UZ9CWA
0944-21084 3Z0RY
1448-21083 Z21HD
1511-14085 LZ1KB
1653-21087 CX5CJ
2032-14086 VA3MM
2153-14081 LU1HM

MONDAY 25

0345-14084 T28RW  QSL ZL1AMO
0605-14086 HV4NAC QSL IK0FVC
1345-21070 J28JJ  ARQ
1355-21074 VP8WA  PACTOR
1414-14082 UN5PR
1512-14087 RU9FM
1526-21076 ZC4SW  PACTOR QSL G0DVF
1638-14087 TA5C
1741-14089 5R8KH
2156-14086 SV1QN

TUESDAY 26

0612-14095 V63JM  PACTOR
0625-14082 C91AI  QSL VIA  CT1GTZ
0720-14090 WL7EE
1205-14087 UT7FP
1340-21085 VS6GA
1747-14084 SV1ADG
2310-14089 HK0DPA
2356-14083 V31AR

WEDNESDAY 27

0552-14085 C91AI
0605-14088 NH6XM
0620-14086 WL7EF
0745-14086 T28RW
1107-21070 S92ZM  ARQ
1404-14090 VS6GA
1555-14085 9H1ET
1714-14089 ZC4ZZ
2212-14088 HK0DPA
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THURSDAY 28

0524-14080 OD5NA PACTOR
0552-14083 C91AI
1514-21070 J28JJ ARQ

NOTES OF INTEREST:
MORE ON 9X5LJ. ON HIS RETURN IN BELGIUM, JACQUES WAS ON TV NEWS. HE WAS RECOMMENDED FOR KEEPING A 2 MTR VOICE REPEATER IN KIGALI GOING WHICH ASSISTED GREATLY DURING THE EVACUATION OPERATIONS.JACQUES WAS HOPITALISED FOR MALARIA AND HEPATITIS. BOTH, MONIQUE AND JACQUES ARE TOUCHED BY ALL SEND MESSAGES OF OF SYMPATHY THEY HAVE RECEIVED. THEY ARE VERY GRATEFUL FOR THEM AND SEND THEIR REGARDS TO ALL OF YOU. THE BOX WAS STILL RUNNING ON THE 25TH APR. 21073 ON AMTOR.

MARKET REEF. ERIC OJ0/OH2BBF PLANS TO AIR SOME RTTY FROM 15TH TO 16TH MAY FROM MARKET REEF. OJ0/OH1VR, OJ0/AC6T, OJ0/OH6RM AND OH0MB WILL BE ON SSB/CW, OJ0/OH1VR ALSO ON 6 METERS, 14TH TO 17TH MAY. (OH0MB IS THE CURRENT MARKET REEF CALL OF LARS, OH0RJ). OPERATION IS PENDING FROM WEATHER DUE TO HELICOPTER TRANSPORTATION.

VOLTA RTTY TEST. HONORING ITALIAN DISCOVERER OF ELECTRICITY, ALESSANDRO VOLTA, I REMIND YOU THIS CONTEST WHICH WILL START FROM 1200Z MAY 14TH AND WILL END 1200Z OF MAY 15TH. EXCHANGE RST, QSO NUMBER AND CQ ZONE NUMBER.

GENEVA. AN ITALIAN TEAM WILL BE ACTIVE FROM ITU HEADQUARTERS MAY 20-22TH USING SPECIAL CALL 4U9ITU ON CW, SSB AND RTTY.

SEND YOUR BANDPASS AND NOTES FOR NEXT WEEK BULLETIN TO JULES, W2JGR AT W2TKU.#SRQFL.FL.USA.NA.

GL DE (DX2) LUCIANO, I5FLN AT ZS5S.ZAF.AF

Editors Note

Lucianos comments apply here as much as overseas. What has happened to the Amateurs code of respecting others rights? All that is required is to choose a frequency in that segment of the band set aside for the mode you want to use, and to take a moment or two to listen for any traffic to see that the frequency is clear. Not too much to ask, is it?

Surely amateurs of today can abide by the gentlemans code and make the hobby pleasant and friendly for all.

Coming events

1994

May 14th-15th Volta RTTY WW Contest

Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general

enquiries. Enquiries can also be made by packet to the President (Col) VK2CTD, or the Secretary (Pat) VK2JPA @ VK2RWI or whatever BBS is providing the alternative communication.

News items may be sent to Broadcast Officer PO Box 60 Blacktown 2148 Australia, or by packet to VK2JPA as per the above outline.
Email address for the Broadcast Officer is:

patl@pitt.conmusic.su.oz.au

The Society welcomes news items on any digital subjects from anywhere in the broadcast footprint. We know we reach ZL and South Pacific islands. We are looking forward to news from your areas to let other amateurs know what you are doing in the hobby. Hope to hear from you.

73s de Pat VK2JPA Broadcast Officer
That concludes ANARTS NEWS 808 08/05/94.

To assist an analysis of our distribution, if you use this means of obtaining a copy of the bulletins, a VERY BRIEF note would be appreciated. Simply your call and via ??????BBS would be sufficient- Send via Packet through VK2DAA, or Amtor through VK2AGE, I monitor them both weekly......Additional comments will be read with interest.

Inserted by VK2BQS (Jim) Vice President ANARTS.

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